



IDAHO DEPARTMENT  
OF HEALTH AND WELFARE

DIVISION OF  
ENVIRONMENTAL QUALITY

1410 North Hilton, Boise, ID 83706-1255, (208) 334-0502

Philip E. Batt, Governor

June 29, 1995

**CERTIFIED MAIL # P 875 704 064**  
**RETURNED RECEIPT REQUIRED**

Steve Appleton  
Micron Technology, Incorporated  
8000 South Federal Way  
Boise, ID 83706-9698

Re: Micron Technology, Inc. (Boise) Tier II Operating Permit (#001-00044) for  
Emergency Generators

Dear Mr. Appleton:

On March 8, 1995, the Division of Environmental Quality (DEQ) received Micron Technology, Inc.'s, Tier II Operating Permit (OP) application for emergency generators in Boise. On March 30, 1995, that application was determined complete. On May 15, 1995, a proposed Tier II Operating Permit was issued for public comment. Based on review of your application, state and federal rules and regulations, and the comments received, DEQ finds this project meets the provisions of IDAPA 16.01.01.400 (Rules for the Control of Air Pollution in Idaho). Therefore, I am pleased to enclose your Tier II OP #001-00044 for the emergency generators.

You, as well as any other entity, may have the right to appeal this final agency action pursuant to the Idaho Department of Health and Welfare Rules, Title 5, Chapter 3, "Rules Governing Contested Case Proceedings and Declaratory Rulings," by filing a petition with the Hearings Coordinator, Department of Health and Welfare, Administrative Procedures Section, 450 West State Street - 10th Floor, Boise, Idaho 83720-5450, within thirty-five (35) days of the date of this decision.

Please be advised that this operating permit is subject to permit application fees of five hundred dollars (\$500.00) in accordance with IDAPA 16.01.01.470. IDAPA 16.01.01.470 became effective on March 7, 1995. Information regarding the permit application fees will be sent to you shortly.

If you have any questions regarding the terms or conditions of the enclosed permit, please contact Brian Monson, Chief, Operating Permits Bureau, at (208) 334-5898.

Sincerely,

*Orville D. Green for DEQ*

Orville D. Green  
Assistant Administrator  
Permits and Enforcement

ODG/HE/rj:c:\...JJ\HE\MICCOMPL.LTR

cc: Chelly Reesman, Micron  
Joy Palmer, SWIRO  
Sue Richards

Harbi Elshafei  
Source File  
COF

STATE OF IDAHO  
AIR POLLUTION  
OPERATING PERMIT

GENERAL INFORMATION

PERMIT NUMBER

001 - 00044

AQCR

064

CLASS

A1

SIC

3674

ZONE

11

UTM COORDINATE (km)

569 0 4819 7

1. PERMITTEE

Micron Technology, Incorporated

2. PROJECT

Tier II Operating Permit -- Emergency Generators

3. ADDRESS

8000 South Federal Way

TELEPHONE #

(208) 368-4529

COUNTY

ADA

4. CITY

Boise

STATE

Idaho

ZIP CODE

83706

5. PERSON TO CONTACT

Chelly Reesman

TITLE

Environmental Coordinator

6. EXACT PLANT LOCATION

Close to Federal Way in Boise, Idaho

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Semiconductor Manufacturing

8. GENERAL CONDITIONS

This permit is issued according to the Rules for the Control of Air Pollution in Idaho, Section 16.01.01.400 and pertains only to emissions of air contaminants which are regulated by the State of Idaho and to the sources specifically allowed to be operated by this permit.

THIS PERMIT HAS BEEN GRANTED ON THE BASIS OF DESIGN INFORMATION PRESENTED WITH ITS APPLICATION CHANGES IN DESIGN OR EQUIPMENT, THAT RESULT IN ANY CHANGE IN THE NATURE OR AMOUNT OF EMISSIONS, MAY BE A MODIFICATION. MODIFICATIONS ARE SUBJECT TO DEPARTMENT REVIEW IN ACCORDANCE WITH Section 16.01.01.200 OF THE Rules for the Control of Air Pollution in Idaho.

ISSUED June 29, 1995

Date

EXPIRES June 29, 2000

Date

*Mark Bauer for ODE*  
ASSISTANT ADMINISTRATOR  
DIVISION OF ENVIRONMENTAL QUALITY

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

## PERMIT NUMBER

Micron Technology, Incorporated

001 - 00044

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Emergency Diesel Generators

## 1. SOURCE DESCRIPTION

1.1 Process Description There are five (5) emergency diesel generators (i.e., EU1-GEN-01, EU1-GEN-02, EU1-GEN-03, EU1-GEN-04, & EU1-GEN-05) located at different locations at Micron Technology, Inc., with rated capacities of 475, 339, 1443, 1851, and 263 hp, respectively. The emergency generators are present at the facility in the event of an unexpected loss of power. The emergency generators are used to maintain the production equipment in an idle, standby mode until power is restored. No production of semiconductors would occur during either the power down or idle phases.

1.2 Control Equipment Control of sulfur dioxide (SO<sub>2</sub>) emissions shall be performed by burning No. 2 and/or No. 1 fuel oil which has a sulfur content of no more than 0.5 percent by weight. Other pollutants resulting from combustion are uncontrolled.

1.3 Stack Design Specifications

1.3.1 The generator stacks shall meet the following design specifications:

1.3.1.1 EU1-GEN-01  
 Stack Height: 9.0 feet  
 Stack Diameter: 0.5 feet  
 Volumetric Flow Rate: 2568 ACFM  
 Exit Temperature: 1010°F

1.3.1.2 EU1-GEN-02  
 Stack Height: 9.0 feet  
 Stack Diameter: 0.5 feet  
 Volumetric Flow Rate: 1921 ACFM  
 Exit Temperature: 992°F

1.3.1.3 EU1-GEN-03  
 Stack Height: 13.0 feet  
 Stack Diameter: 0.75 feet  
 Volumetric Flow Rate: 8275 ACFM  
 Exit Temperature: 878°F

1.3.1.4 EU1-GEN-04  
 Stack Height: 15.0 feet  
 Stack Diameter: 0.75 feet  
 Volumetric Flow Rate: 9620 ACFM  
 Exit Temperature: 905°F

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## AIR POLLUTION OPERATING PERMIT

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## SOURCE

Emergency Diesel Generators

1.3.1.5 EU1-GEN-05  
 Stack Height: 12.0 feet  
 Stack Diameter: 0.5 feet  
 Volumetric Flow Rate: 1465 ACFM  
 Exit Temperature: 1270°F

1.4 Equipment Specifications

1.4.1 EU1-GEN-01	Type: Caterpillar 3406;	Capacity: 475 hp
1.4.2 EU1-GEN-02	Type: Caterpillar 3306;	Capacity: 339 hp
1.4.3 EU1-GEN-03	Type: Caterpillar 3512;	Capacity: 1443 hp
1.4.4 EU1-GEN-04	Type: Cummings KTA 50-G3;	Capacity: 1851 hp
1.4.5 EU1-GEN-05	Type: Caterpillar 3208;	Capacity: 263 hp
1.4.6 Additional generators with capacities not to exceed 1851 hp.		

## 2. EMISSION LIMITS

- 2.1 PM-10 (particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers), PM (particulate matter), SO<sub>2</sub> (sulfur dioxide), NO<sub>x</sub> (oxides of nitrogen), CO (carbon monoxide), and VOC (volatile organic compounds) emissions from each of the EU1-GEN-01, EU1-GEN-02, EU1-GEN-03, EU1-GEN-04, and EU1-GEN-05 emergency generators shall not exceed the pound per hour (lb/hr) values listed in Appendix A.
- 2.2 PM, PM-10, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC emissions from any additional emergency generators shall not exceed the pound per hour (lb/hr) emission limits for any existing generators (i.e., EU1-GEN-01, EU1-GEN-02, EU1-GEN-03, EU1-GEN-04, & EU1-GEN-05) values listed in Appendix A.
- 2.3 Aggregated annual emissions from all generators shall not exceed the ton per year (T/yr) values listed in Appendix A based on a twelve (12) month rolling average.
- 2.4 Visible stack emissions shall not exceed twenty percent (20%) opacity for more than three (3) minutes in any sixty (60) minute period, as required in IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho) and as determined using the Department's "Procedures Manual for Air Pollution Control."
- 2.5 Sulfur dioxide (SO<sub>2</sub>) emissions shall be limited by burning No. 2 and/or No. 1 fuel oil that contains a maximum sulfur content of 0.5 percent by weight as required in IDAPA 16.01.01.728.

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## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Micron Technology, Incorporated

## P E R M I T N U M B E R

001 - 00044

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Emergency Diesel Generators

## 3. OPERATING REQUIREMENTS

- 3.1 Each emergency generator shall use only No. 2 and/or No. 1 fuel oil. The operation of each emergency generator shall not exceed two hundred (200) hours per year (hr/yr) based on a twelve (12) month rolling average.
- 3.2 All emergency generators shall not be operated, except for emergencies, during any period in which an Atmospheric Stagnation Advisory and/or a mandatory Wood Stove Curtailment in Boise have been declared by the Department.
- 3.3 Any additional emergency generators that are installed at the facility shall have capacities that do not exceed 1851 hp and shall comply with all applicable requirements including IDAPA 16.01.01.200, prior to construction.

## 4. REPORTING AND RECORDKEEPING REQUIREMENTS

- 4.1 The Permittee shall record the amount of No. 2 and/or No. 1 fuel oil used in each emergency generator in a calendar year and the hours of operation (hours per day and hours per year) for each emergency generator. The hours shall be recorded as either emergency hours resulting from an electric power outage or as maintenance hours. These records shall be maintained in a log and remain on-site for a minimum period of two (2) years and shall be made available to the Department personnel upon request.
- 4.2 The Permittee shall notify the Department in writing prior to construction of any additional emergency generators at the facility.

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## APPENDIX A

## MICRON TECHNOLOGY, INCORPORATED

## EMERGENCY GENERATORS

HOURLY (lb/hr) AND ANNUAL (T/yr) POINT SOURCE EMISSION LIMITS

SOURCE	PM		PM-10		SO <sub>2</sub>		CO		NO <sub>x</sub>		VOC	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
EU1-GEN-01	1.05		1.05		0.97		3.2		14.7		1.4	
EU1-GEN-02	0.75		0.75		0.70		2.3		10.5		1.0	
EU1-GEN-03	0.77		0.77		5.8		7.6		35.0		1.1	
EU1-GEN-04	0.99		0.99		7.5		9.8		44.9		1.4	
EU1-GEN-05	0.58		0.58		0.54		1.8		8.1		0.78	
Aggregated Generators		1.28		1.28		8.01		10.91		50.02		1.73

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OPERATING PERMIT GENERAL PROVISIONS

- A. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code 39-101 et. seq.
- B. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
- C. The permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
- 1) To enter upon the permittee's premises where an emission source is located, or in which any records are required to be kept under the terms and conditions of this permit; and
  - 2) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and to require stack emission testing (i.e., performance tests) in conformance with state approved or accepted EPA procedures when deemed appropriate by the Director.
- D. Except for data determined to be confidential under Section 39-111, Idaho Code, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Division of Environmental Quality.
- E. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
- F. In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Director.
- G. This permit shall be renewable on the expiration date, provided the permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit such information within sixty (60) days after receipt of the Director's request shall cause the permit to be voided.
- H. The Director may require the permittee to develop a list of Operation and Maintenance Procedures which must be approved by the Department. Such list of procedures shall become a part of this permit by reference, and the permittee shall adhere to all of the operation and maintenance procedures contained therein.
- I. The permittee shall provide the Department a minimum of thirty (30) days notice prior to the scheduled date of any performance test required pursuant to this permit. Such testing must strictly adhere to the procedures outlined in the Department's Procedures Manual for Air Pollution Control, and will not be conducted on weekends or state holidays, unless the permittee obtains prior

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Department approval. Testing procedures and specific time limitations may be modified by the Department by prior negotiation if conditions warrant adjustment.

The permittee shall promptly notify the Department of any change in the testing schedule and shall provide at least five (5) working days notice prior to conducting any rescheduled test, unless the Department approves a shorter advanced notice period. Any records or data generated as a result of such performance tests shall be made available to the Department upon request.

The performance tests will be performed at the maximum production rate unless otherwise is specifically stated elsewhere in this Operating Permit. If this maximum rate is not achieved during testing, the allowable production rate will be limited to the production rate attained during testing.

- J. The provisions of this permit are severable; and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

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